

Installing IBM Lotus Workplace 1.1

Lotus software

<http://www-136.ibm.com/developerworks/lotus/>

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Section 1. About this tutorial

Should I take this tutorial?

This tutorial is based on the "Getting started with IBM Lotus® Workplace 1.1" workshop, held at Solution Partnership Centers around the world. The workshop introduces the Lotus Workplace (LWP) environment and teaches attendees how to install and configure version 1.1. In this tutorial, we explore how you can install a stand-alone system with the IBM Lotus Workplace V1.1 code. This environment is a good starting point to get a feel for what version 1.1 offers; the installation can be used for a proof of concept.

For an introduction to Lotus Workplace and its products, see "[What is IBM Lotus Workplace?](http://www-10.lotus.com/ldd/today.nsf/lookup/LWP11)" (<http://www-10.lotus.com/ldd/today.nsf/lookup/LWP11>) "

About the author

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For technical questions about the content of this tutorial, contact Rohit Sahasrabudhe at sahas@us.ibm.com.

Hardware and software requirements

Before starting this tutorial, you should carefully check the following table for the minimum hardware and software requirements for a Lotus Workplace V1.1 installation. You should also consult the related documentation in the [Resources](#) on page 38 section.

Hardware requirements
<ul style="list-style-type: none">° Two Intel® Pentium® 4 or faster processors° 2 GB RAM minimum

- Virtual memory or swap space double the amount of RAM
- At least 14 GB of free disk space

Software requirements

- Microsoft® Windows® 2000 Server with Service Pack 4 or higher.
- IBM WebSphere® Application Server Enterprise Version 5.0.1.

The Lotus Workplace 1.1 installation provides this software. Do not use a previously installed version of the WebSphere Application Server.
- IBM WebSphere Portal for Multiplatforms, Version 5.

The Lotus Workplace 1.1 installation provides this software. Do not use a previously installed version of WebSphere Portal.
- IBM DB2® Universal Database Enterprise Server Edition, Version 8.1 with Fix Pack 2. Fix Pack 2 is provided with the software. You can use Fix Pack 3, but you must obtain this fix pack yourself.
- IBM HTTP Server Version 1.3.26 (installed with the product).
- IBM Tivoli® Directory Server Version 5.1. Other LDAP directory servers support can be verified by checking the updated list from the resources section.
- Supported client operating systems: Microsoft Windows 2000, Microsoft Windows XP and SuSE® Linux 7.2 or later.
- Supported browsers:
 - Microsoft Internet Explorer 5.5 with Service Pack 2 - on Windows 2000, with Microsoft Java Virtual Machine (JVM) 1.1.
 - Microsoft Internet Explorer 6.0 - on Windows 2000 and Windows XP with the Sun® plug-in version of Java Virtual Machine (JVM) 1.4.1.
 - Netscape® Mozilla 1.3 - on SuSE Linux 7.2 or later - with the Sun plug-in version of Java Virtual Machine (JVM) 1.4.1.

Section 2. Installing IBM Lotus Workplace

Introduction

In order to follow this tutorial for a stand-alone, "sandbox" style controlled environment, you may wish to set up a Loopback adapter on your system. Even as part of the workshops, attendees use an image created with a Loopback adapter. This adapter will allow you to set up a virtual network on a Windows environment. The underlying middleware components used in IBM Lotus Workplace require a fully qualified domain name. For you to follow this tutorial, you either need to have your own static IP address and domain name registered, or utilize the Loopback adapter and the HOSTS file to make the system think that a particular hostname and IP being used is the true IP.

For IBM Lotus Workplace V1.1, it is recommended that you start with a clean Windows 2000 Server environment with Service Pack 4. The following instructions will help you set up a Loopback adapter on this system.

1. Choose Start - Settings - Control Panel - Add/Remove Hardware.
2. Click Next.
3. Select Add/Troubleshoot a device and click Next.
4. Select Add new device and click Next.
5. Select No, I want to select the hardware from a list and click Next.
6. Scroll down and select Network adapters as the hardware type and click Next.
7. Scroll down and select Microsoft as the manufacturer and Microsoft Loopback Adapter as the network adapter and click Next.
8. Click Next and click Finish.
9. From the Windows desktop, right-click on My Computer, select Properties.
10. Select the Network Identification tab, then click the Properties button.
11. Click More and add the suffix: `techpreview.ibm.com` in the text box. Check the box underneath (change primary DNS suffix) as selected.
12. Click OK all the way through and you will probably be asked to reboot.

Once you've rebooted, set your IP address as follows:

1. Choose Start - Settings - Network and Dial up Connections.
2. Right-click the Microsoft Loopback Adapter.
3. Click Properties.
4. Scroll down and double-click Internet Protocol (TCP/IP).
5. Enter an IP address (`10.0.0.1`) and Subnet Mask (`255.0.0.1`).
6. Reboot.

Add this fully qualified hostname (assumed by this tutorial: `lwp11.techpreview.ibm.com` the IP address (`10.0.0.1`) to your `c:\winnt\system32\drivers\etc\hosts` file.

Check your network settings. Start a command line window, and execute the command:

```
ping lwp11.techpreview.ibm.com
```

The IP address should be 10.0.0.1 instead of 127.0.0.1.

The tutorial assumes that the DB2 Administrator and the Windows Administrator user is the following:

Userid: db2admin

Password: db81admn

Installation tips: Be patient. Some of the scripts take time to execute. And keep the Task Manager in view to get a clear picture of the installation process.

Installing IBM DB2 UDB 8.1 Enterprise Server

1. Create a local db2admin account, and assign it a password (this tutorial assumes: db81admn) if one doesn't already exist and make this account a member of the Administrators group.
2. If you haven't already, log in as db2admin and make sure you have the following Local Security Policies set for your db2admin user.

Assign these policies by choosing Start - Programs - Administrative Tools - Local Security Policy , Select Local Policies - User Rights Assignments:

- ° Act as part of the operating system
 - ° Create a token object
 - ° Log on as a service
 - ° Replace a process level token
3. Verify that the db2admin account is a member of the local Administrators group. If not, add the user in that group.
 4. From the DB2 Enterprise Edition CD (CD 5-1), run either Setup.exe or Launchp.exe.
 5. On the installer screen, click Install Products.
 6. Click Next (DB2 UDB Enterprise Server Edition is selected).
 7. From Welcome to the DB2 Setup Wizard, click Next.
 8. Review the license agreement. If you accept the terms, click I accept the terms of the agreement and click Next.
 9. In the Setup the installation type window, click Typical and click Next.
 10. The default screen does not have Data Warehousing and Satellite administration capability selected. Do not change the defaults. Click Next.

11. A warning screen appears regarding APPC. Click OK.
 12. At Select the installation action, accept the default, Install DB2, Enterprise Server Edition on this computer. Do not select Save your settings in a response file. Click Next.
 13. At Select installation folder for DB2, select the installation folder. This tutorial assumes the folder to be C:\SQLLIB.
 14. Set user information for the DB2 Administration Server as follows, and click Next when you are done:
 - For user name, enter db2admin, and be sure all the rights are selected for this user.
 - Specify the password created in step 1.
 - Leave Use the same user name and password for the remaining DB2 services checked.
 15. At Set up the administration contact list, accept the default, (Local) and click Next.
 16. When you see a warning screen, Notification SMTP server, click OK.
 17. In the Configure DB2 instances screen, click Protocols and configure the TCP/IP protocol. Keep the default settings (Service name, db2c_DB2 and Port number, 50000), click OK, then Next.
 18. In the Prepare the DB2 tools catalog window, click Prepare the DB2 tool catalog in a local database and click Next.
 19. In the Specify a local database to store the DB2 tools catalog window, accept the defaults and click Next.
 20. In the Specify a contact for health monitor notification window, click Defer the task after installation is complete and click Next.
 21. In the Start copying files window, review the list and click Install.
 22. Click Finish when installation completes.
 23. Reboot the machine, then follow the instructions to Apply DB2 UDB 8.1 Fix Pack 2.
-

Apply DB2 UDB 8.1 Fix Pack 2

You must apply at least Fix Pack 2 to DB2 UDB 8.1

1. Log on as db2admin.
2. Go to Control Panel/Services and stop all the DB2 services (that are started automatically), except for DB2 DB2-0.
3. From the DB2 Fix Pack 2 CD (CD 5-10), run update.exe. It will automatically find the previous installation of DB2 8.1. If prompted to stop DB2 services, click YES.
4. Click OK, and UPDATE when prompted. Wait until this process is complete.
5. If you see a screen stating DB2 is currently running and locked by the following processes, click YES to shutdown those processes and continue.
6. Click Finish at completion.

7. Reboot your machine.

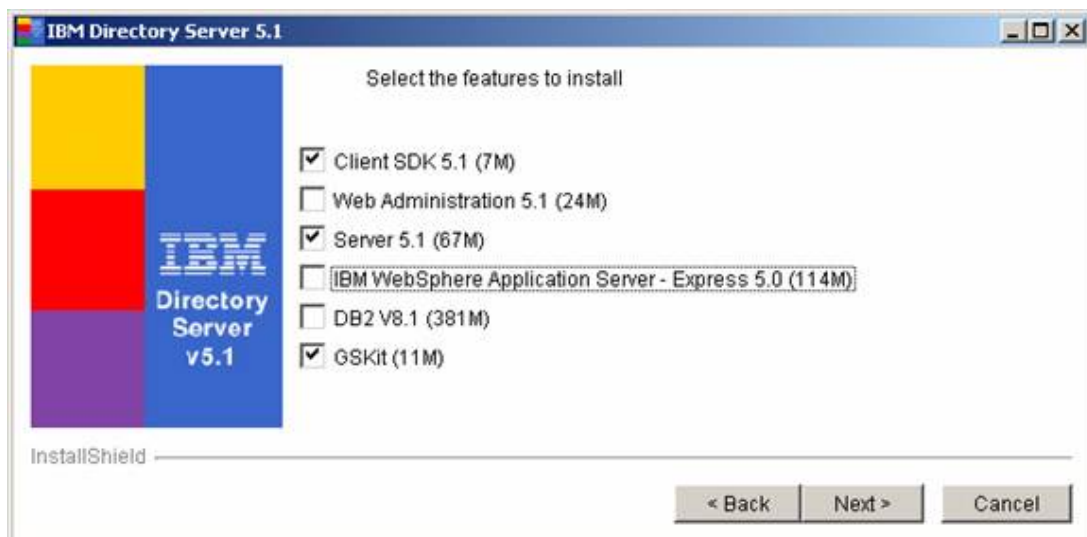
Next, you'll need to install IBM Directory Server 5.1.

Installing the IBM Directory Server 5.1

Probably the most important component of a successful LWP deployment is the LDAP server schema. It is imperative that the LWP administrator collaborate with the LDAP administrator. This tutorial assumes a clean install of IBM Directory Server 5.1 and import of provided LDIF. If you are using an existing LDAP server, you can skip the instructions below and go to [Lotus Workplace installation](#) on page9 .

Follow these steps to install IBM Directory Server 5.1 on the same system as Lotus Workplace.

1. Log on to the local system as db2admin.
2. From the IBM Directory Server 5.1 CD (CD 3-1), change to the ids_ismp directory and run Setup.exe.
3. Select English as the language to be used and click OK.
4. Click Next on the Welcome to Installshield Wizard.
5. Review the license agreement. If you accept, accept the terms in the license agreement and click Next.
6. Click Next at the verification that DB2 is already installed.
7. Change the directory name to C:\LDAP and click Next.
8. Select English as the language for IBM Directory Server and click Next.
9. It is *critical* to select CUSTOM as the setup type and click Next.
10. Because IBM Directory Server 5.1 uses WebSphere Application Server to deploy the graphical administration client, you must uncheck Web Administration and IBM WebSphere Application Server. Therefore, only select Client SDK, Server 5.1 and GSKit. Then click Next.



11. Review the installation summary and click Next.
 12. Click OK to begin GSKit installation.
 13. Click Next (possibly twice) at the completion of installation.
 14. Click Next to restart your server.
 15. Click Finish.
 16. Reboot your system.
-

IBM Directory Server 5.1 Configuration

Upon reboot, there are a few configuration steps required using the IBM Directory Server Configuration Tool.

- Click Administrator/DN password.
 1. For the Administrator DN, use the default, `cn=root`.
 2. For the Administrator password, use `password`.
 3. Confirm password, use `password`.
 4. Click OK.
 5. Click OK.
- Click Configure Database.
 1. Check Create New Database and click Next.
 2. Enter your DB2 Administrator user ID, `db2admin`.
 3. Enter the DB2 Administrator password, `db81admn`.
 4. Click Next.
 5. Enter a database name, `db2ldap`, and click Next.
 6. Check Create a universal DB2 database (UTF-8/UCS-2) and click Next.
 7. Use drive C for the database location and click Next.
 8. Verify the settings and click Finish.
 9. Upon completion, click Close.
- Click Configure Suffixes.
 1. Under Suffix DN enter: `dc=ibm`, `dc=com` and click Add.
 2. Click OK.
- Click Import LDIF File.
 1. Click Browse and navigate to select the sample LDIF file, provided in [Resources](#) on page 38.
 2. Choose Standard Import.
 3. At the bottom of the page, click Import.
 4. Upon completion, click Close.
- Close IBM Directory Server Configuration by choosing File - Close.

Now start IBM Directory Server via Windows Services IBM Directory Server 5.1.

Lotus Workplace installation

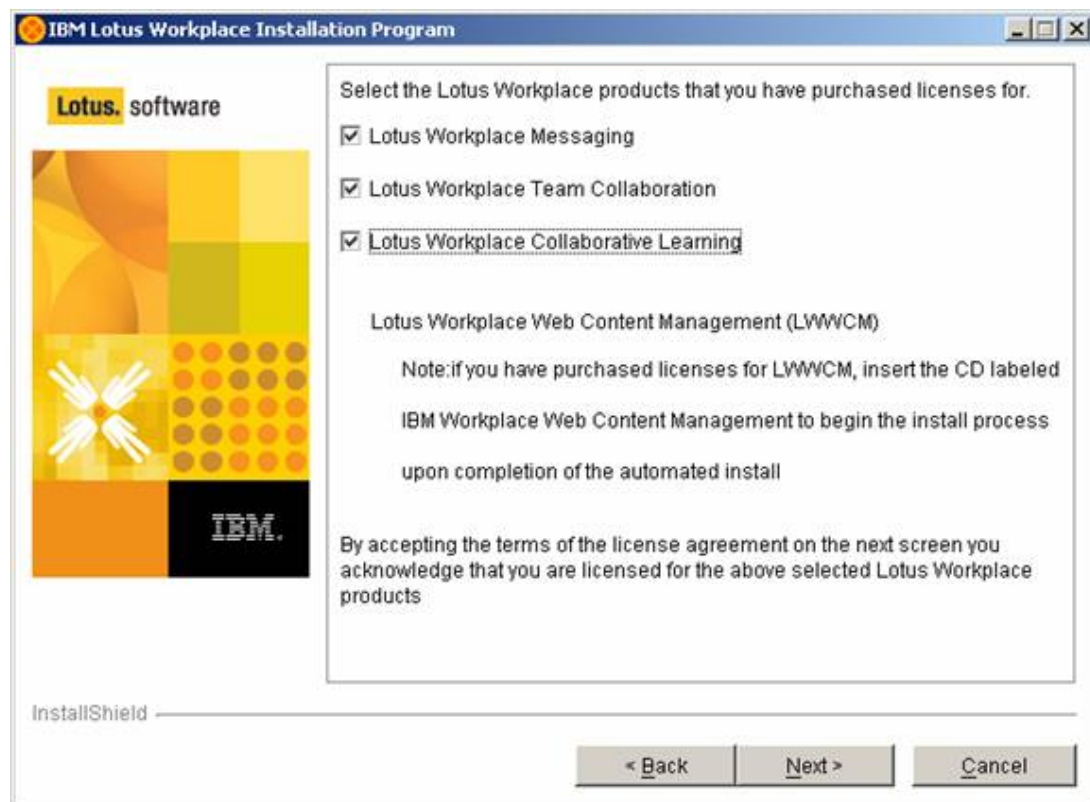
1. Make sure you are logged in to Windows as `db2admin`.
2. Run `install.bat` from the Lotus Workplace Setup CD.
3. In the Select a language to be used for this wizard window, select English and click OK.
4. In the IBM Lotus Workplace Installer window, click Install.
5. In the Welcome to the IBM Lotus Workplace Installation program window, click Next.
6. In the Results of system check... window, make sure you see A supported IBM DB2 Enterprise Server is installed on your server. Click Next.
7. In the The system check detected a DB2 Enterprise Server on this computer window, select the option This computer will host Lotus Workplace data and products, then click Next.
8. In the Before continuing Lotus Workplace installation, WebSphere Portal must be installed window, click Next. You will see the screen Installing WebSphere Portal. *Do not* close this window. You can't click on this installer.
9. The Lotus Workplace Version 1.1 Installer opens to install Portal. In the Select a language to be used for this wizard window, choose English (the default) and click OK.
10. In the Welcome to the Installshield Wizard window, click Next.
11. Review the license agreement. If you accept the terms, click I accept the terms, then click Next. If you see a box asking you to disable any firewall products running on this machine prior to installation, click OK after disabling them manually.
12. In the Choose the setup type that best suits your needs window, select Full and click Next.
13. In the WebSphere Application Server will be installed in the following directory window, accept the default, `C:\WebSphere\AppServer` and click Next. Make sure this directory path contains no spaces.
14. In the IBM HTTP Server will be installed in the following directory window, accept the default, `C:\IBMHttpServer` and click Next.
15. In the You can use Windows Services to run the following WebSphere Application Server features window, just select the Run IBM HTTP Server as a service option. Enter your Windows administrator username (`db2admin`) and password (`db81admn`), and click Next.
16. In the Enter a node name for this instance of WebSphere Application Server window and in the Enter the hostname for this installation of WebSphere Application Server window, enter a node name (`lwp11`), and enter the fully qualified host name (`lwp11.techpreview.ibm.com`) then click Next.
17. In the WebSphere Portal will be installed in the following directory window, accept the default `C:\WebSphere\PortalServer`, then click Next.
18. In the Enter the Portal administrative user and password window, enter `wpsadmin` for the Portal administrator username and `wpsadmin` for the password, confirm the password, and then click Next.
19. In the window Lotus Workplace is ready to install. The following components will be installed, click Next. You will see multiple screens as installation

progresses. Installation takes approximately one hour. You will use CD1-1, CD1-6, and CD2 for this part of the installation. (This tutorial assumes Portal Administrator of `wpsadmin` with password of `wpsadmin`.)

20. In the Installation is successful window, which lists all the components that have been installed, uncheck Launch First Steps and click Finish to launch the Lotus Workplace Installer.
21. In the Results of system check window, click Next.
22. Make sure that the prerequisite product installation has been completed:
 - Windows 2000 Server with Service Pack 4
 - WebSphere Portal Server V5.0
 - DB2 V8.1.2

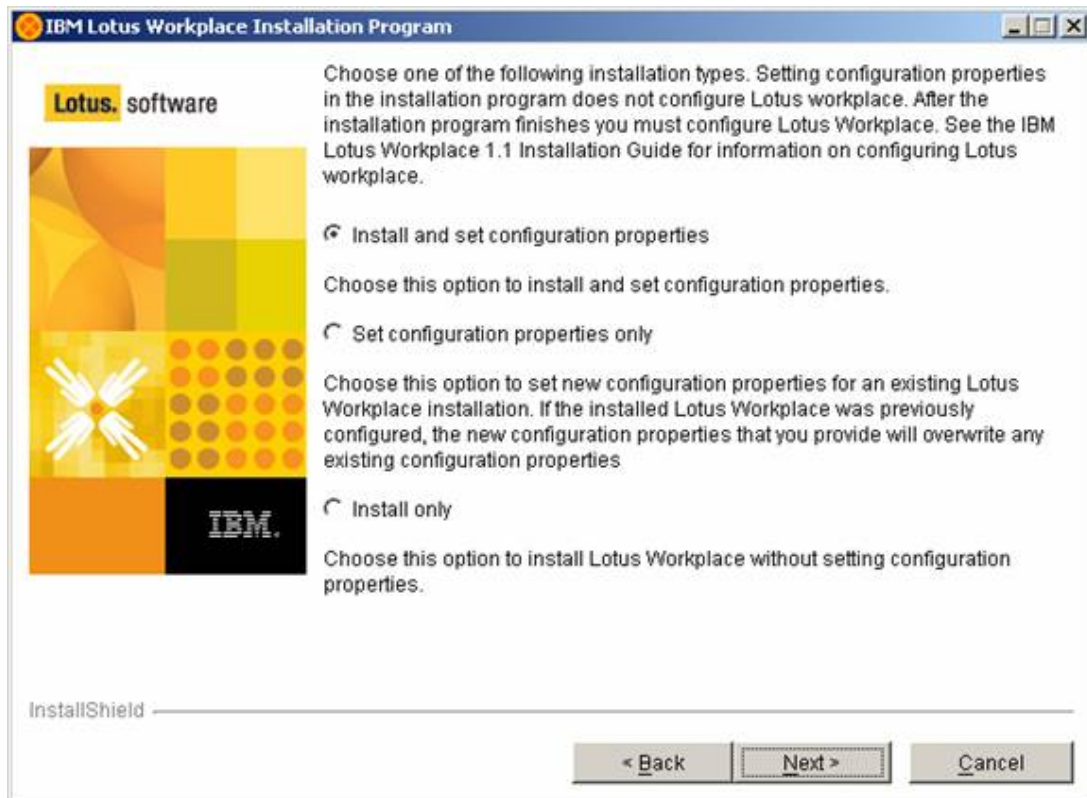
Lotus Workplace Products installation

1. In the Click Next to install Lotus Workplace Products window, click Next. You will use the Workplace CD for this part of the installation.
2. In the IBM Lotus Workplace Installation window, click Next.
3. In the Select the Lotus Workplace products that you have purchased licenses for window, select all the products then click Next, as shown in the following figure:

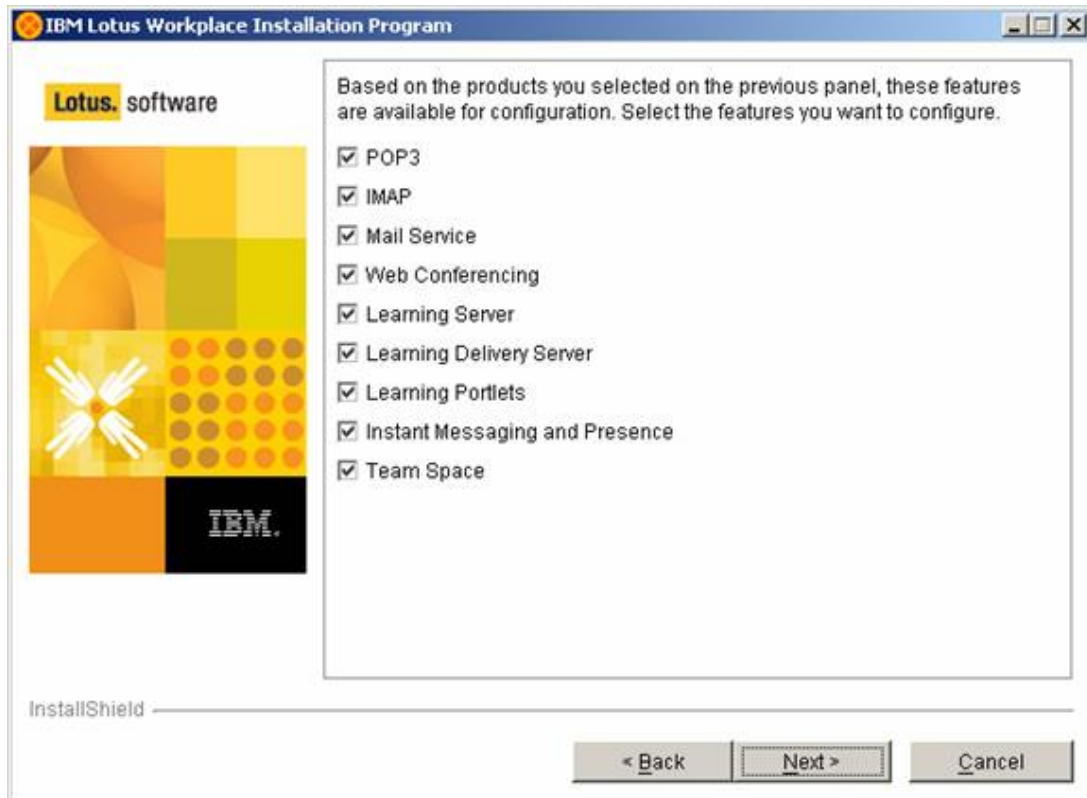


4. Review the license agreement. If you accept the terms, click I accept the terms and click Next.

- At the next screen which describes the install options, select Install and set configuration properties and click Next, as shown in the following figure:

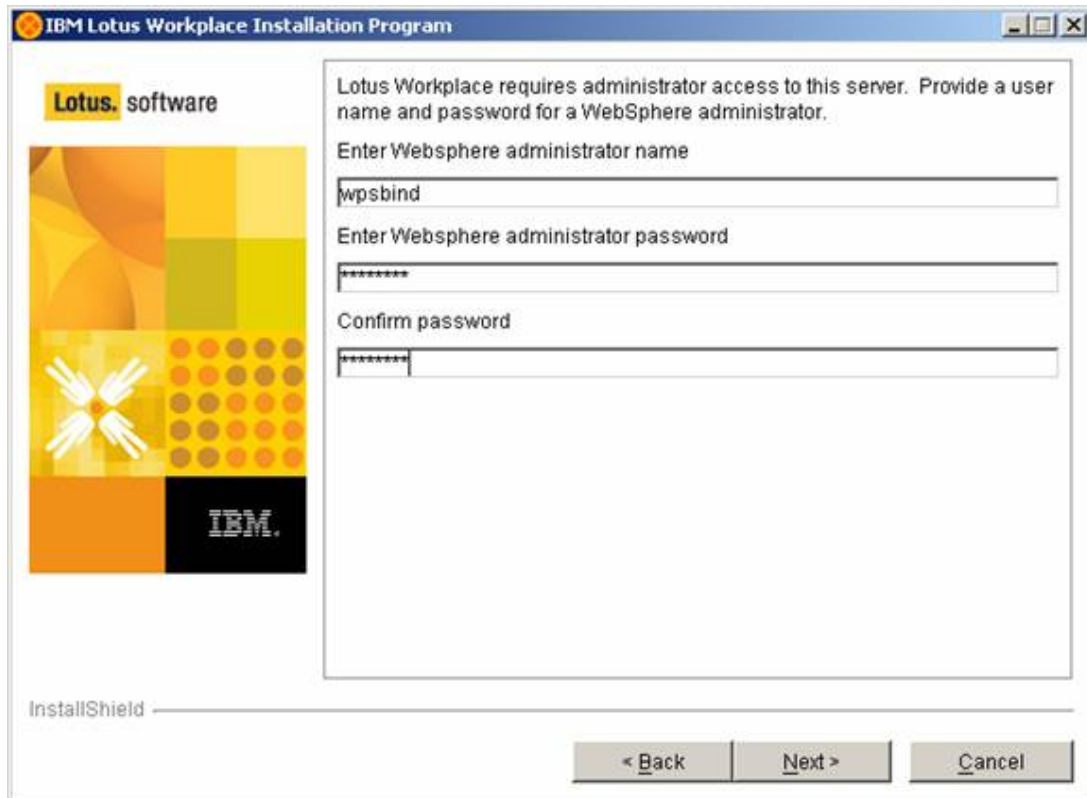


- In the Click Next to install IBM Lotus Workplace to this directory window, accept the default C:\WebSphere\WorkplaceServer and click Next.
- In the window The following WebSphere Application Servers were found on this computer, the system should display C:\WebSphere\AppServer. Click Next.
- In the Based on the products you selected on the previous panel, these features are available for configuration window, leave all the defaults selected, then click Next, as shown in the following figure:

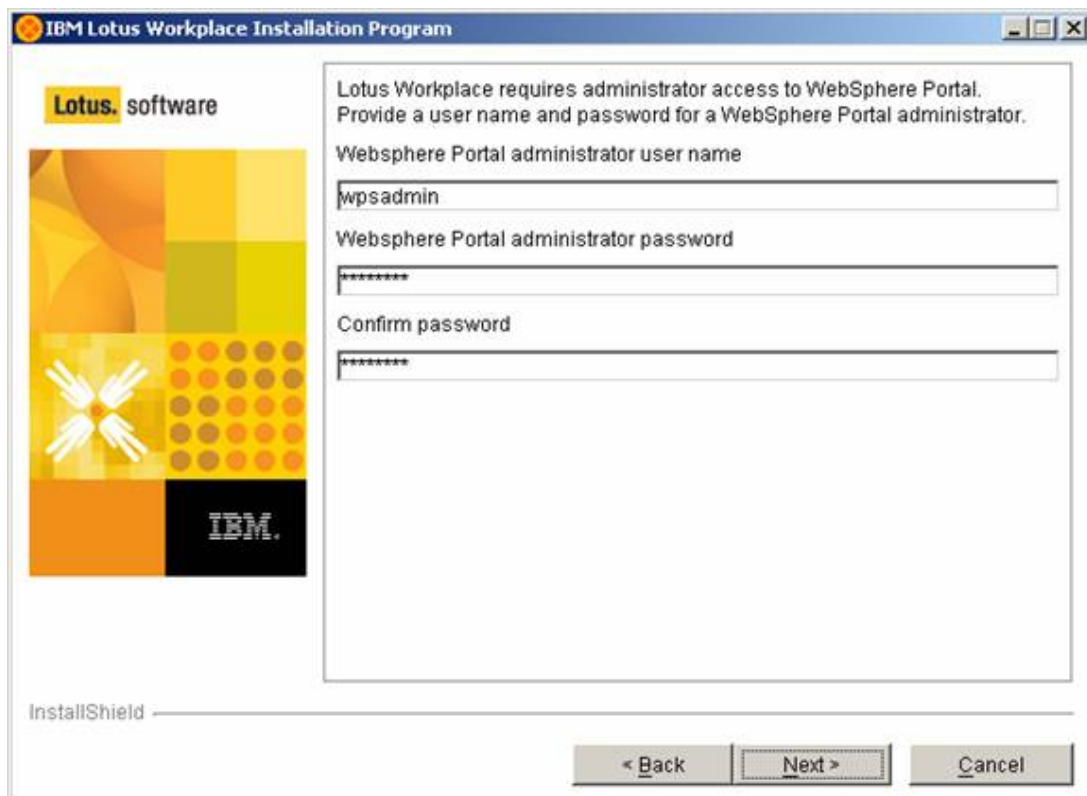


Granting access

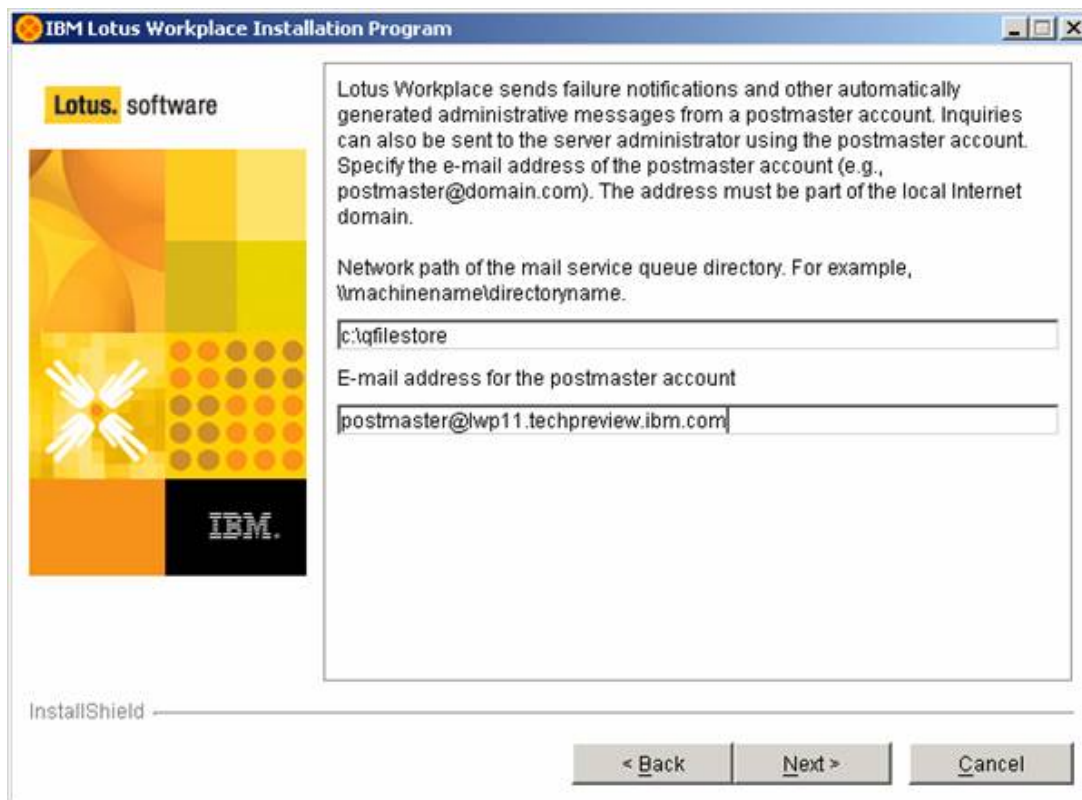
1. In the window Lotus Workplace will install a WebSphere Application Server on this computer. Lotus Workplace requires administrator access to this server, enter `wpsbind` as the administrator name and `password` as the password, then click Next, as shown in the following figure:



2. In the window Lotus Workplace will install a WebSphere Portal on this computer. Lotus Workplace requires administrator access WebSphere Portal, enter `wpsadmin` as the administrator name and `wpsadmin` as the password, then click Next, as shown in the following figure:

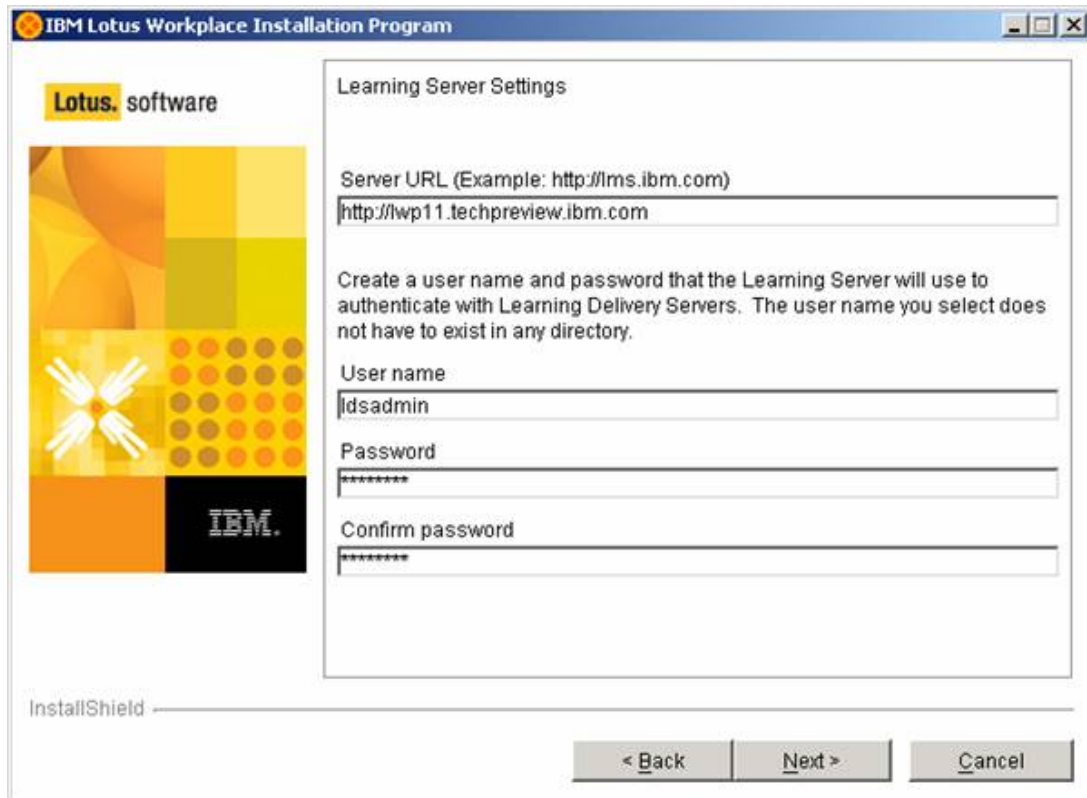


3. In the To create its databases, Lotus Workplace requires window, enter the local DB2 program directory, `C:\SQLLIB`, then enter `db2admin` for the DB2 administrator name, and `db81admn` as the password. Click Next.
4. In the window Lotus Workplace sends failure notifications and other automatically generated administrative messages from a postmaster account, enter the mail service queue directory as `c:\qfilestore`, and a valid e-mail address for the postmaster account. Click Next, as shown in the following figure:

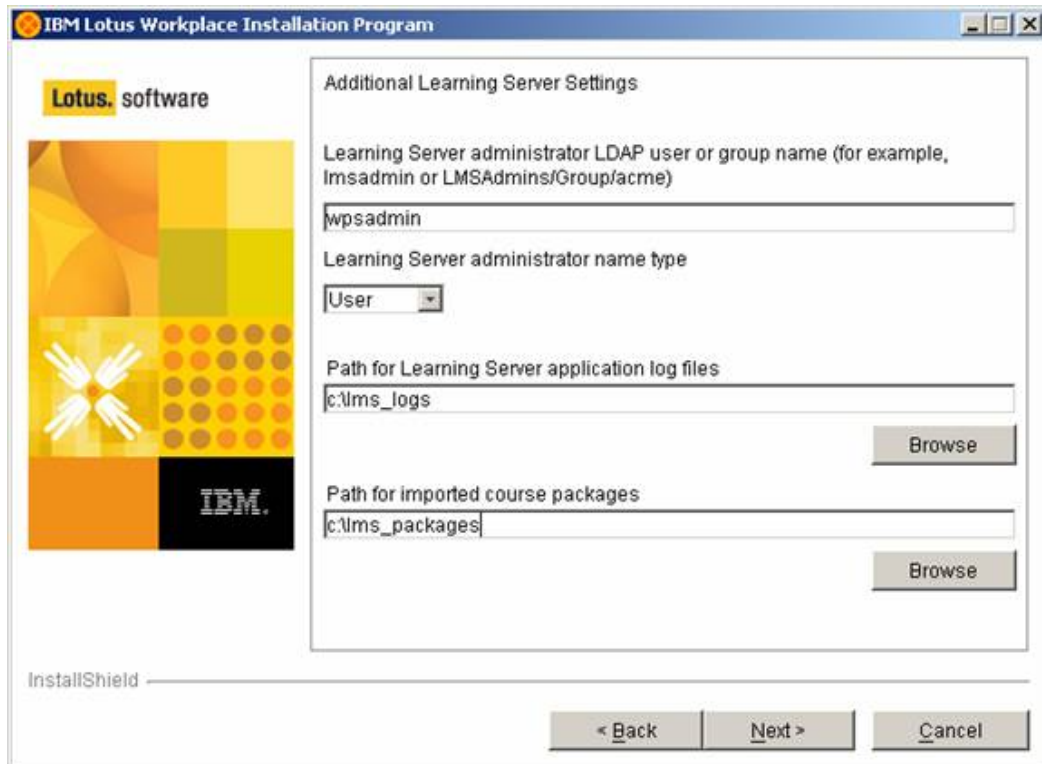


Learning Management Server settings

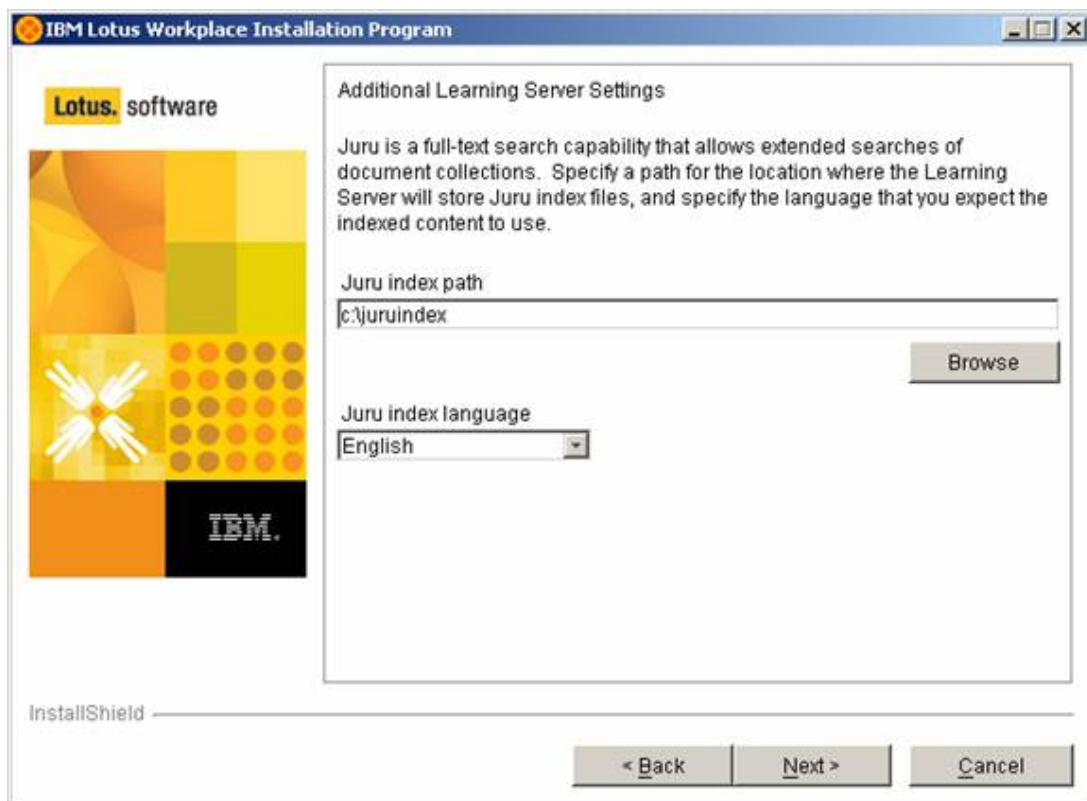
1. In the Learning Management Server Settings window, enter `http://lwp11.techpreview.ibm.com`, and enter `ldsadmin` as the username and `password` as the password, as shown in the following figure. The username does not have to exist in a directory.



2. In the Additional Learning Management Server Settings window, do the following (see also the figure below) and then click Next:
 - For Learning Management Server administrator LDAP user or group name, enter `wpsadmin`.
 - For Learning Management Server administrator name type, keep the default selection, User.
 - For Path for Learning Management Server application log files, enter `c:\lms_logs`.
 - For Path for imported course packages, enter `c:\lms_packages`.



3. At the second Additional Learning Management Server Settings screen, enter C:\juruindex for the Juru index path and English for the Juru index language. Click Next, as shown in the following figure:



Learning Delivery Server settings

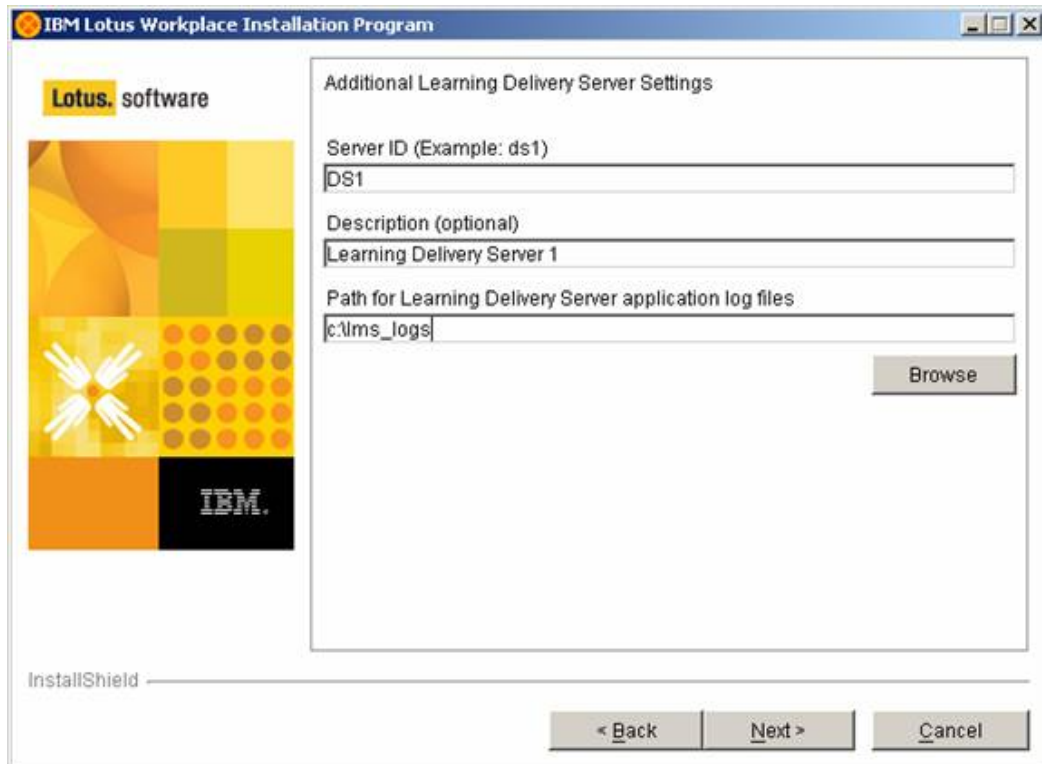
1. In the Learning Delivery Server Settings window, enter `http://lwp11.techpreview.ibm.com`, `ldsadmin` as the username, and `password` as the password. The delivery server will use this information to authenticate with the Learning Management Server (see also the figure below). The username does not have to exist in a directory. Click Next.

The screenshot shows the 'IBM Lotus Workplace Installation Program' window. On the left is a sidebar with the Lotus software logo and a graphic of hands. The main area is titled 'Learning Delivery Server Settings'. It contains the following fields and text:

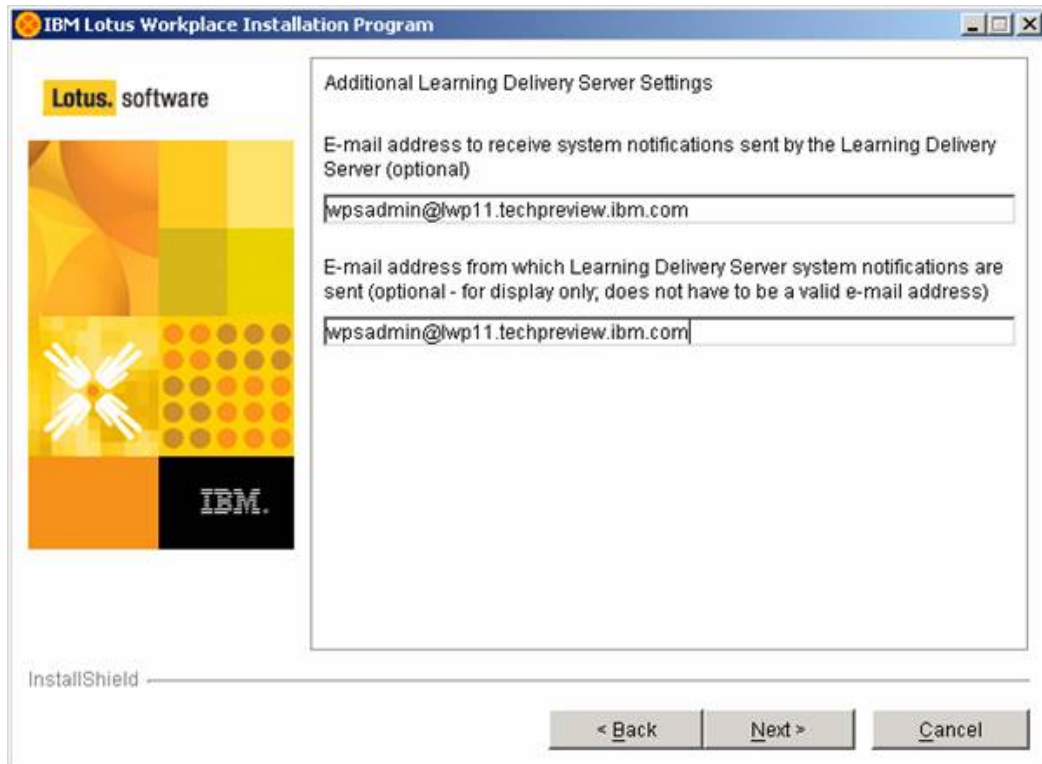
- Server URL (Example: `http://lds.ibm.com`)**: A text box containing `http://lwp11.techpreview.ibm.com`.
- Create a user name and password that the Learning Delivery Server will use to authenticate with the Learning Server. The user name you select does not have to exist in any directory.**
- User name**: A text box containing `ldsadmin`.
- Password**: A text box with masked characters (asterisks).
- Confirm password**: A text box with masked characters (asterisks).

At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

2. In the Additional Learning Delivery Server Settings window, enter the following (see also the figure below) and click Next:
 - ° For Server ID, enter `DS1` for the Learning Delivery Server.
 - ° For Description, enter `Learning Delivery Server 1`.
 - ° For Path for Learning Delivery Server application log files, enter `c:\lms_logs`

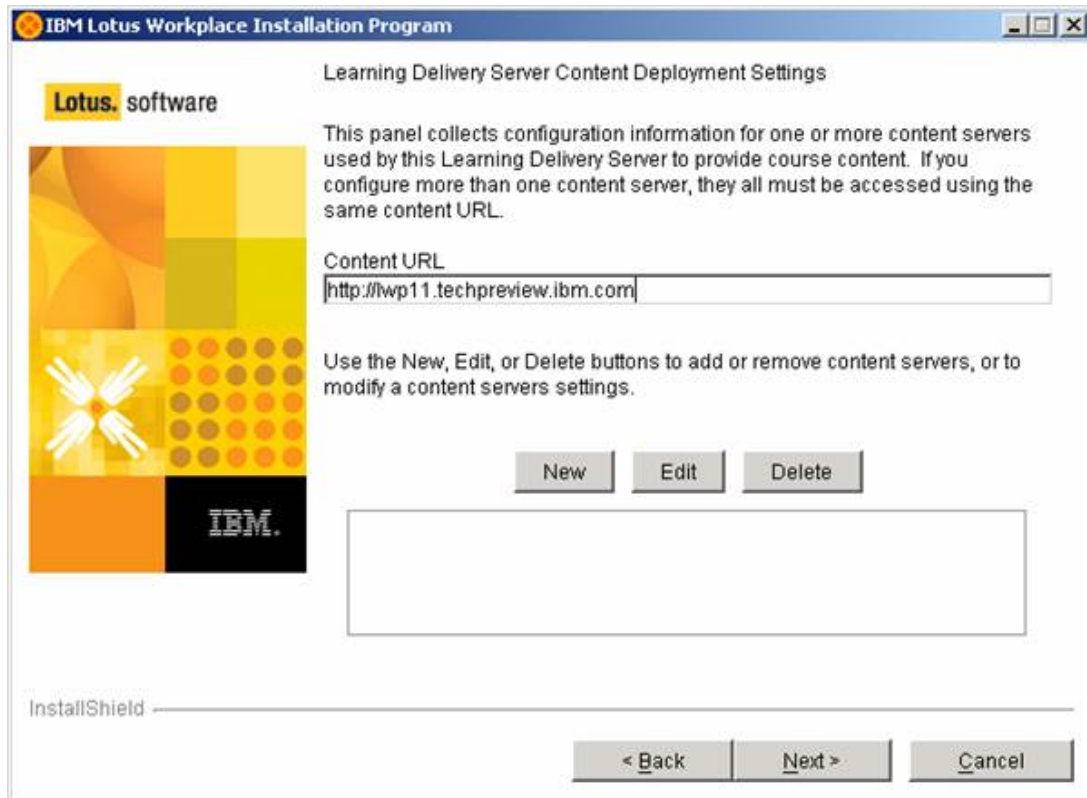


3. At the second Additional Learning Delivery Server Settings window, enter the following (see also the figure below) and click Next:
 1. For E-mail address to receive system notifications sent by the Learning Delivery Server, enter a valid e-mail address for the administrator, `wpsadmin@lwp11.techpreview.ibm.com`.
 2. For E-mail address from which Learning Delivery Server system notifications are sent, enter an e-mail address to display for Learning Delivery Server notifications, `wpsadmin@lwp11.techpreview.ibm.com`, as shown in the following figure:

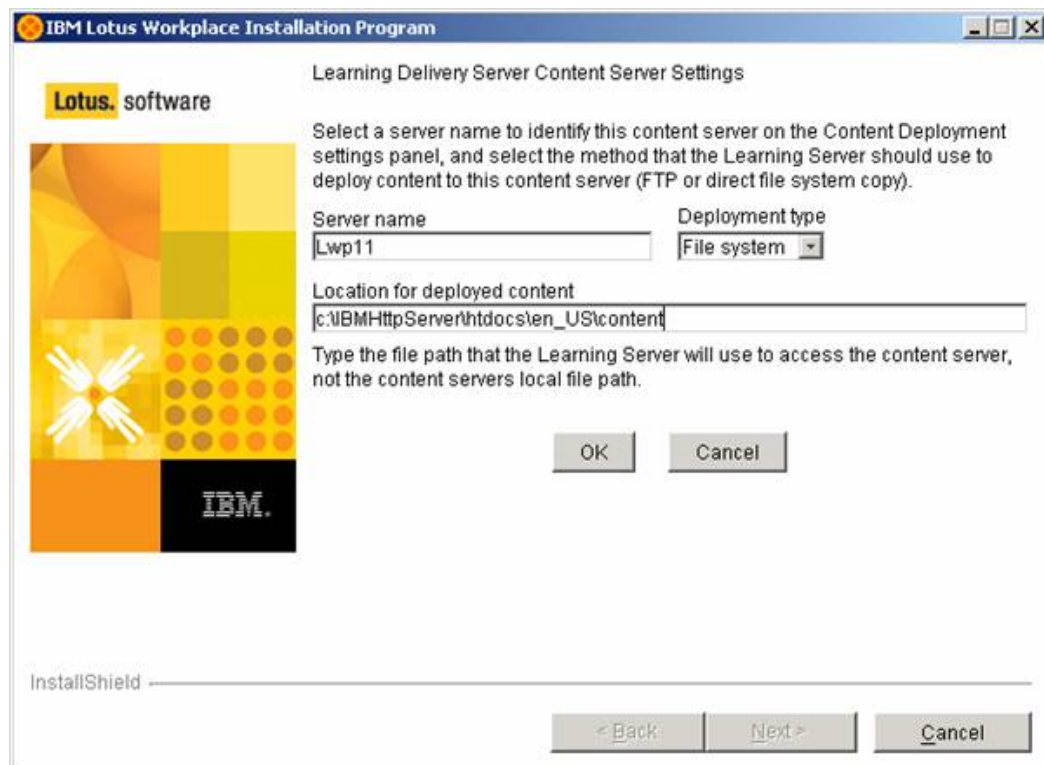


Learning Delivery Server Content Deployment Settings

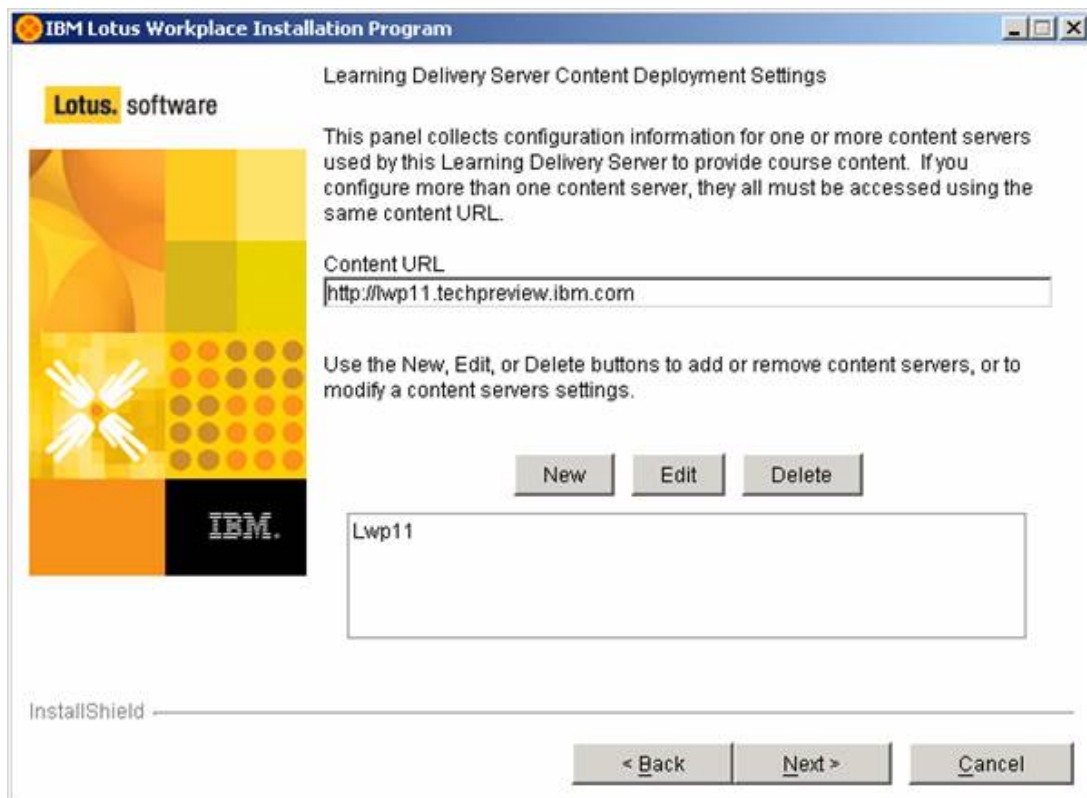
1. In the Learning Delivery Server Content Deployment Settings window, enter `http://lwp11.techpreview.ibm.com`, and click New to specify a server to provide course content, as shown in the following figure:



2. In the Learning Delivery Server Content Server Settings window, enter the following (see also the figure below), then click Next:
 - For Server name, in the Content Deployment Settings panel, enter a name to identify this Content server, Lwp11.
 - For the Deployment type, select File system.
 - For Location for deployed content, enter C:\IBMHttpServer\htdocs\en_US\content and click OK.

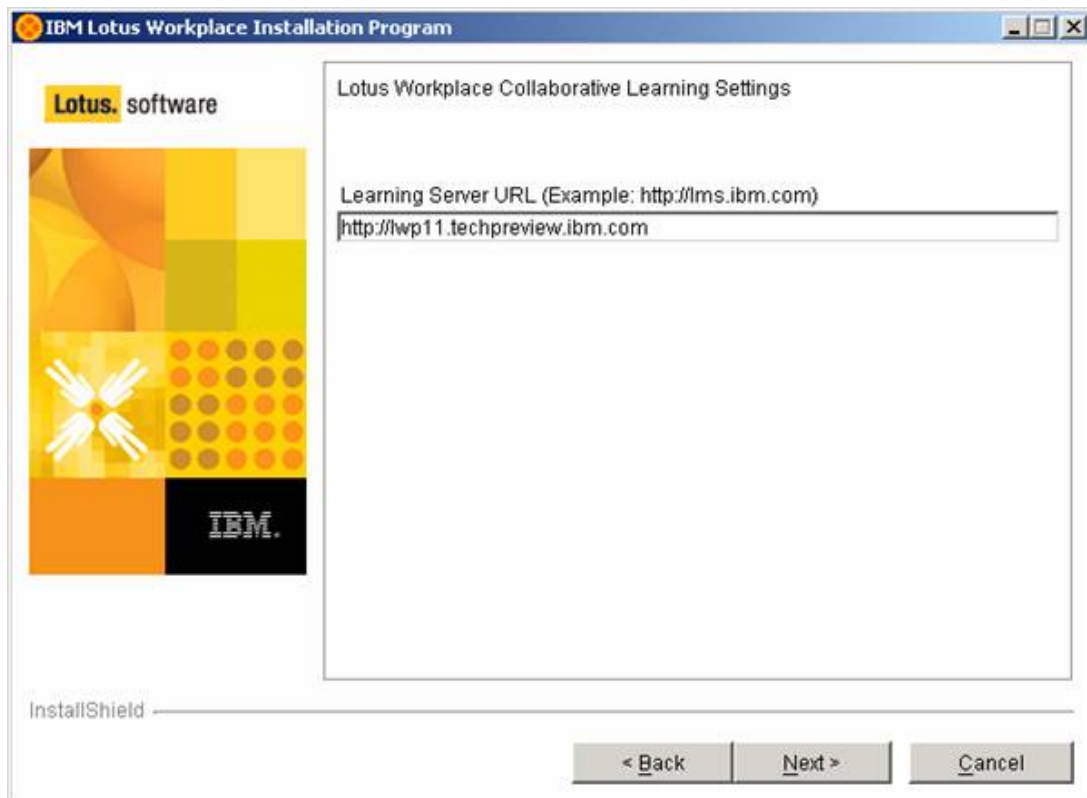


3. Click Next with the Learning Delivery Deployment Settings defined, as shown in the following figure:

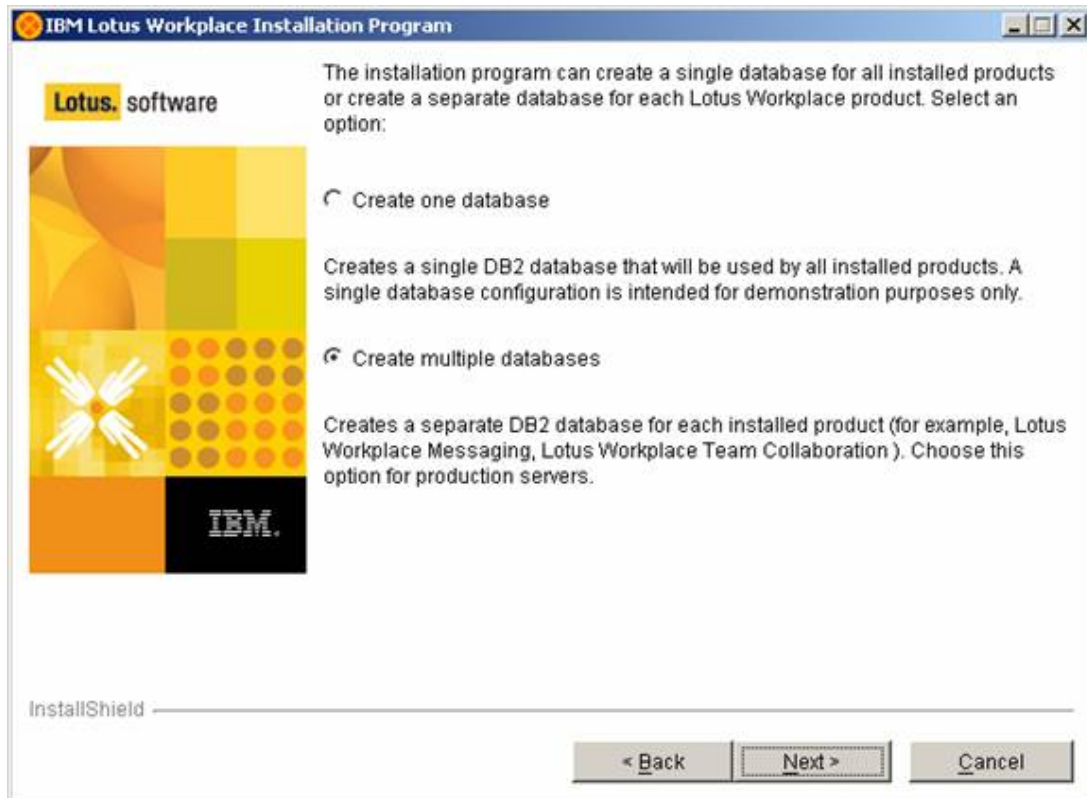


Lotus Workplace Learning settings

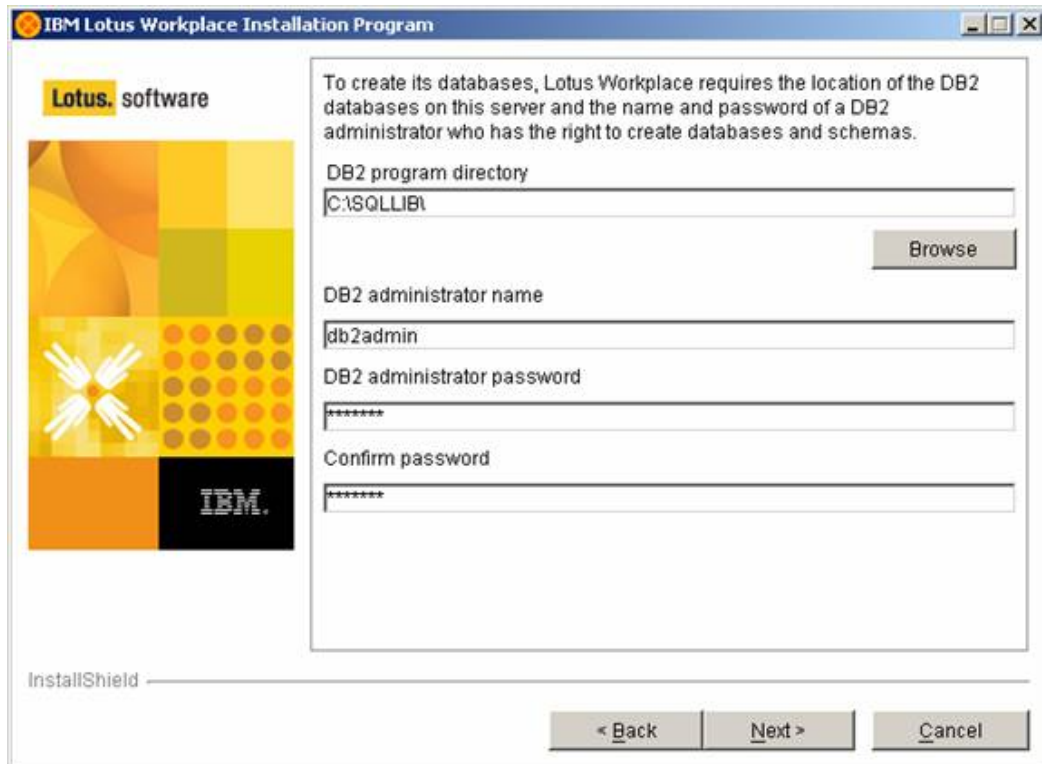
1. In the Lotus Workplace Learning Settings window, enter `http://lwp11.techpreview.ibm.com` as the URL for the Learning Management Server and click Next, as shown in the following figure:



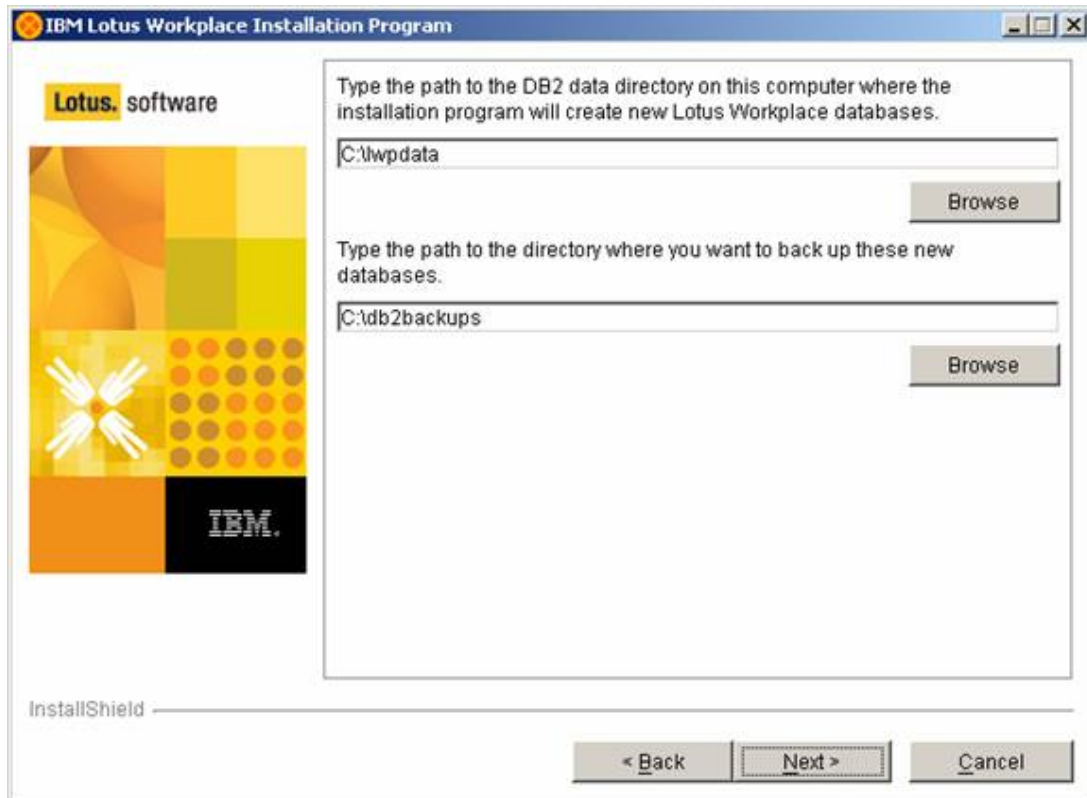
2. In the window Lotus Workplace can create a single database for all installed products, or separate ..., select Create multiple databases, and click Next, as shown in the following figure:



3. In the window To create its databases, Lotus Workplace requires the location of the DB2 databases, specify the following (see also the figure below) and then click Next:
 - For DB2 program directory, enter `C:\SQLLIB`, which should be the default selection.
 - For DB2 administrator name, enter `db2admin`.
 - For DB2 administration password, enter `db81admn`.

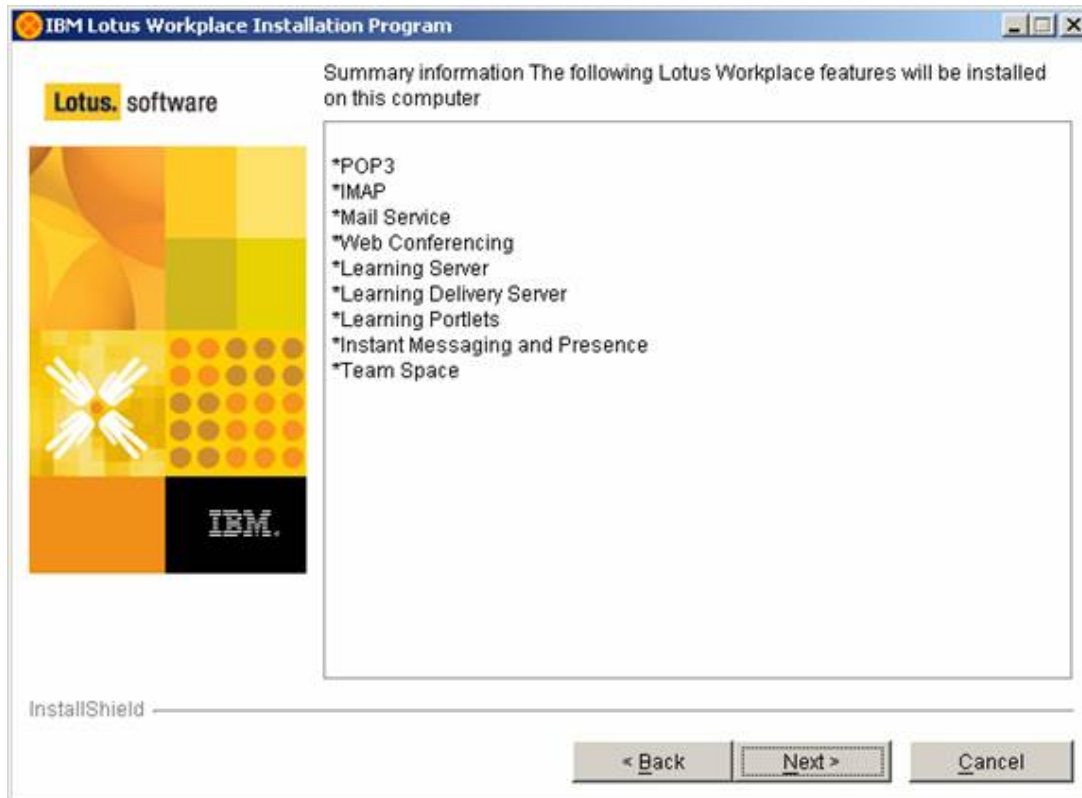


4. At the Warning, to create new database screen, click Next and answer Yes to the subsequent warning specifying data will be lost.
5. In the DB2 data directory, specify the DB2 data directory window, accept the defaults: C:\lwpdata and C:\db2backups as the directory to hold the backup files, as shown in the following figure. Click Next and wait. This step may take a minute to complete. *Do not* click Next again.



Summary and installation wrap up

1. In the Summary information window, click Next and wait. This step may take a minute to complete. *Do not* click Next again.



2. In the Please read the information below window, click Finish and click Exit on the IBM Lotus Workplace Installer screen, as shown in the following figure:



3. Do not start Lotus Workplace yet. First, configure Lotus Workplace, as described in the next section.

Section 3. Configuring IBM Lotus Workplace

Create local databases

After you have installed the WebSphere Application Server, WebSphere Portal Server, and Lotus Workplace products, follow these steps to configure the software. We will be capturing the output in a log file to help debug any problems that occur.

1. To create the necessary local databases:
 - Log on to your Windows system as db2admin.
 - Ensure the default application server, server1, is started:
 1. C:\websphere\appserver\bin\serverstatus all. (Do not be concerned that WebSphere_Portal or LotusWorkplace_Server are not listed as application servers. They will be added in a subsequent steps.)
 2. If server1 is not running, start it:


```
c:\websphere\appserver\bin\startserver server1
```
2. At the DOS prompt, go to C:\WebSphere\WorkplaceServer\config and enter the following command, as shown in the figure below:
 - LwpDBconfig lwp-create-db > createdb.log (processing takes about 20 minutes).

```

C:\WebSphere\AppServer\bin>serverstatus -all
ADMU0116I: Tool information is being logged in file
           C:\WebSphere\AppServer\logs\serverStatus.log
ADMU0500I: Retrieving server status for all servers
ADMU0505I: Servers found in configuration:
ADMU0506I: Server name: server1
ADMU0508I: The Application Server "server1" is STARTED

C:\WebSphere\AppServer\bin>cd \web*\work*\config

C:\WebSphere\WorkplaceServer\config>lwpdbconfig lwp-create-db > createdb.log
[exec] Result: 4
[exec] Result: 4
[exec] Result: 4
[exec] Result: 4
[exec] Result: 4
[exec] Result: 4
[exec] Result: 4
[exec] Result: 2
[exec] Result: 2
[exec] Result: 2
[exec] Result: 2
[exec] Result: 2
[exec] Result: 6
[exec] Result: 6

C:\WebSphere\WorkplaceServer\config>notepad lwp-create-db > createdb.log
C:\WebSphere\WorkplaceServer\config>notepad createdb.log
  
```

- Verify that you see BUILD SUCCESSFUL in the log file indicating that the databases are created.
3. Verify the list of DB2 databases, as shown in the figures below:
 - At the command prompt type:


```
db2cmd
```

db2 list database directory

```

C:\DB2 CLP
C:\WebSphere\WorkplaceServer\config>db2 list database directory

System Database Directory

Number of entries in the directory = 7

Database 1 entry:

Database alias           = WPCP50
Database name            = WPCP50
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = Portal Content Publisher
Directory entry type     = Indirect
Catalog database partition number = 0

Database 2 entry:

Database alias           = TOOLSDB
Database name            = TOOLSDB
Database drive           = C:\DB2
Database release level   = a.00
Comment                  =
Directory entry type     = Indirect
Catalog database partition number = 0

Database 3 entry:

Database alias           = FDBK50
Database name            = FDBK50
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = WPCP Feedback
Directory entry type     = Indirect
Catalog database partition number = 0

Database 4 entry:

Database alias           = WPS50
Database name            = WPS50
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = WebSphere Portal
Directory entry type     = Indirect
Catalog database partition number = 0

Database 5 entry:

Database alias           = LWPLDS
Database name            = LWPLDS
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = Learning Delivery Server
Directory entry type     = Indirect
Catalog database partition number = 0

```

```

C:\DB2 CLP

Database 6 entry:

Database alias           = NAGANO
Database name            = NAGANO
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = Lotus Workplace Messaging
Directory entry type     = Indirect
Catalog database partition number = 0

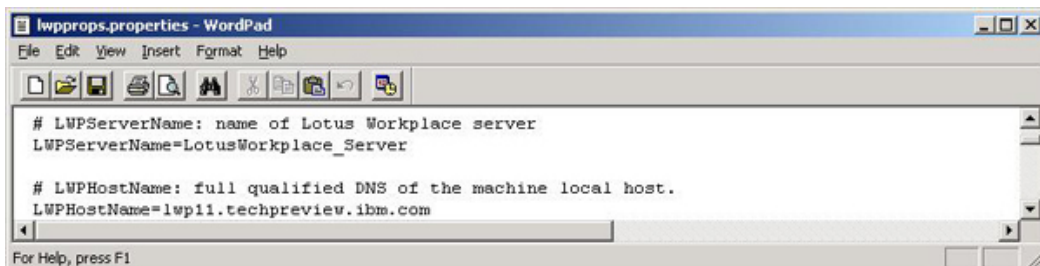
Database 7 entry:

Database alias           = LWPLMS
Database name            = LWPLMS
Database drive           = C:\DB2
Database release level   = a.00
Comment                  = Learning LMS Server
Directory entry type     = Indirect
Catalog database partition number = 0

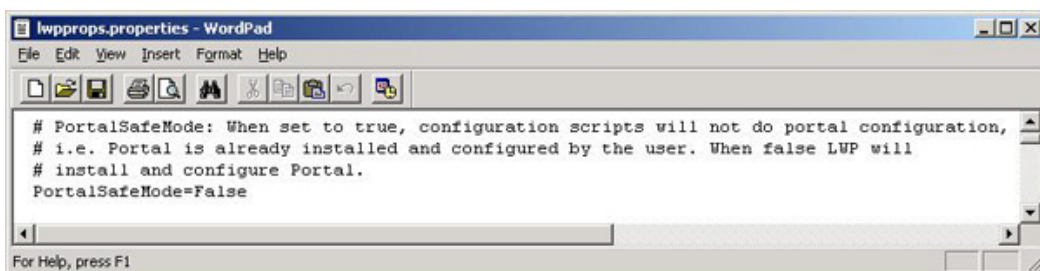
```

Configure Lotus Workplace servers

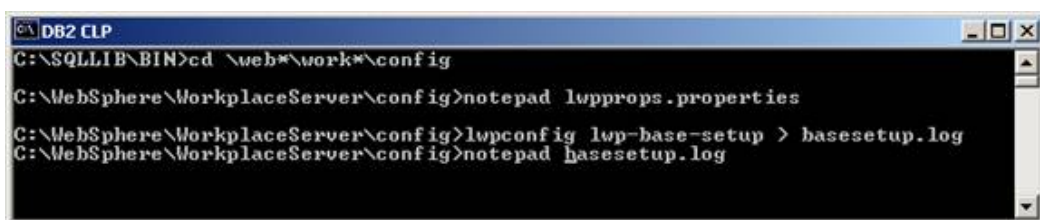
1. At the DOS prompt, go to
C:\WebSphere\WorkplaceServer\config\lwpprops.properties
and edit/configure the following property:
 - LWPHostName is set to lwp11.techpreview.ibm.com, as shown in the figure below:



- PortalSafeMode is set to False, as shown in the figure below:



2. Go to C:\WebSphere\WorkplaceServer\config and enter the following command, as shown in the figure below:
 - lwpconfig lwp-base-setup - basesetup.log (this process takes about 90 minutes)



- Verify that you see BUILD SUCCESSFUL in the log file indicating that the base-setup is complete.
3. Enter the following URL in your browser to verify that all servers are running:

<http://lwp11.techpreview.ibm.com:9081/lwp/workplace>

You should see a plain login screen. *Do not* log in to the Workplace yet.

Update the Web server plug-in file

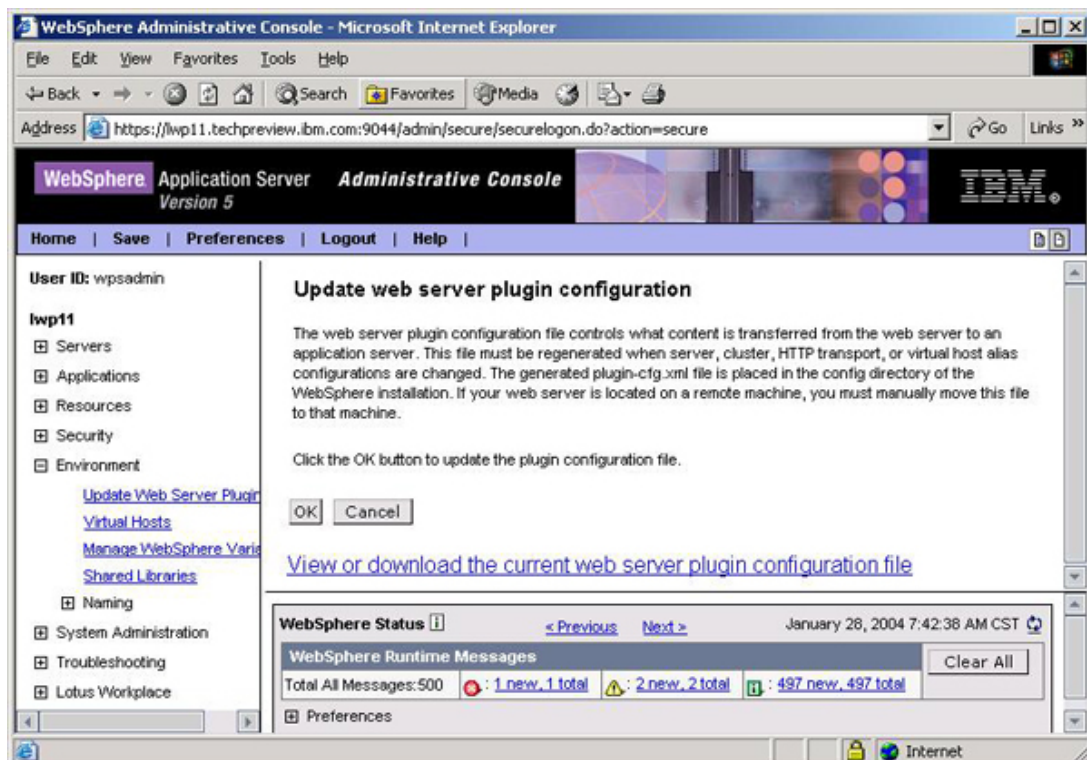
1. Enter the following URL in your browser:

`http://lwp11.techpreview.ibm.com:9091/admin`

2. Log in as any user name. The name is not verified, as we don't have security enabled yet.



3. Select Environment - Update web server plug-in.
Click OK to update.



Enable security

1. Make sure the following entries exist in the LDAP directory. Create them if necessary before continuing to the next step.
 - A user entry for the WebSphere administrator. The entry must have write access to the directory. The tutorial set up assumes it to be `wpsadmin` or `uid=wpsadmin,cn=users,dc=ibm,dc=com` as found in the LDAP.
 - A user entry for the WebSphere Portal administrator. The entry must have write access to the directory. Do not create a separate entry. Instead use the entry for the WebSphere administrator.
 - A user entry for the LDAP administrator. The entry must have write access to the directory. Do not create a separate entry. Instead use the entry for the WebSphere administrator
 - **Note:** You can use one entry to represent the WebSphere administrator, WebSphere Portal administrator, and LDAP administrators, rather than a separate entry for each. This tutorial assumes one entry to represent all three administrators
 - A user entry with read access or greater used for WebSphere Portal searches of the directory. This entry can be the same one used for the LDAP administrator. The tutorial set up assumes it to be `wpsbind` or `uid=wpsbind,cn=users,dc=ibm,dc=com` as found in the LDAP.
 - A Portal administrator group entry with write access to the directory. This group must include the WebSphere administrator, Portal administrator, and LDAP administrator names. The tutorial set up assumes it to be: `wpsadmins` or `uid=wpsadmins,cn=groups,dc=ibm,dc=com` as found in the LDAP.
2. At the DOS prompt, go to `C:\WebSphere\AppServer\bin` and enter the following command to create a backup configuration:
 - `backupconfig.bat`
3. Go to `C:\WebSphere\AppServer\bin` and enter the following command to restart the server (see also the following figure):
 - `serverStatus -all`
 - `startServer server1`


```

C:\DB2 CLP
.....
ADMU5002I: 1,223 files successfully backed up

C:\WebSphere\AppServer\bin>serverstatus -all
ADMU0116I: Tool information is being logged in file
             C:\WebSphere\AppServer\logs\serverStatus.log
ADMU0500I: Retrieving server status for all servers
ADMU0505I: Servers found in configuration:
ADMU0506I: Server name: LotusWorkplace_Server
ADMU0506I: Server name: server1
ADMU0506I: Server name: WebSphere_Portal
ADMU0509I: The Application Server "LotusWorkplace_Server" cannot be reached. It
             appears to be stopped.
ADMU0509I: The Application Server "server1" cannot be reached. It appears to be
             stopped.
ADMU0509I: The Application Server "WebSphere_Portal" cannot be reached. It
             appears to be stopped.

C:\WebSphere\AppServer\bin>startserver server1
ADMU0116I: Tool information is being logged in file
             C:\WebSphere\AppServer\logs\server1\startServer.log
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 2140

C:\WebSphere\AppServer\bin>_

```

4. **Note:** Included in the [Resources](#) on page 38, you will find a completed lwpprops.properties.techpreview file. You can copy it to c:\websphere\workplace\config and rename it to lwpprops.properties or use it as a working template.
5. Go to C:\WebSphere\WorkplaceServer\config
 - Edit lwpprops.properties and specify the following LDAP server properties, all of which are required:

Property	Description
Wps.LDAPWasUserId=<DN>	Fully distinguished name that corresponds to the WebSphere administrator entry in the LDAP directory. This name must have write access to the directory. This tutorial assumes uid=wpsadmin,cn=users,dc=ibm,dc=c
WasAdmin=<non-qualified name>	The non-qualified name of the WebSphere administrator entry. This tutorial assumes wpsadmin.
WasPassword=<password>	Password for the WebSphere administrator entry. This tutorial assumes wpsadmin.
Wps.PortalAdminIdLong<DN>	Fully distinguished name that corresponds to the Portal administrator entry in the LDAP directory. This name must have write access. The name can be the same as the one used for the WebSphere administrator. This tutorial assumes uid=wpsadmin,cn=users,dc=ibm,dc=c
PortalAdminId=<non-qualified name>	Non-qualified name of the Portal administrator entry. This tutorial

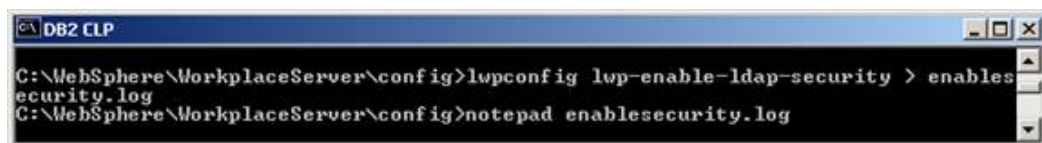
	assumes <code>wpsadmin</code> .
<code>PortalAdminPwd=<password></code>	Password for the Portal administrator. This tutorial assumes <code>wpsadmin</code> .
<code>Wps.LDAPAdminUid=<DN></code>	Fully distinguished name that corresponds to the LDAP administrator entry in the LDAP directory. The name must have write access to the directory. The name can be the same as the one for the WebSphere administrator or Portal administrator. This tutorial assumes <code>cn=root</code> .
<code>Wps.LDAPAdminPwd=<password></code>	Password for the LDAP administrator. This tutorial assumes <code>password</code> .
<code>Wps.LDAPBindID=<DN></code>	Fully distinguished name that Portal uses when searching the directory. The name requires only read access to the directory. Can be the same as the LDAP administrator name. This tutorial assumes <code>uid=wpsbind,cn=users,dc=ibm,dc=com</code> .
<code>Wps.LDAPBindPassword=<password></code>	Password for the name used for searches. This tutorial assumes <code>password</code> .
<code>Wps.PortalAdminGroupId=<DN></code>	Fully distinguished name of the Portal administrator group entry in the LDAP directory. The group must have write access to the directory and include as members the WebSphere administrator, Portal administrator, and LDAP administrator names. This tutorial assumes <code>cn=wpsadmins,cn=groups,dc=ibm,dc=com</code> .
<code>Wps.PortalAdminGroupIdShort=<non-qualified name></code>	Non-qualified name of the WebSphere Portal administrator group. This tutorial assumes <code>wpsadmins</code> .
<code>Wps.HostName=<hostname></code>	Fully qualified host name of the Portal server, for our set up: <code>lwp11.techpreview.ibm.com</code> .
<code>Wps.SSOEnabled=<true or false></code>	True to use single sign-on (SSO) with Lotus Workplace products, false otherwise. SSO is configured through WebSphere Portal. Enter <code>true</code> .
<code>Wps.SSODomainName=<SSO domain></code>	If using SSO, SSO domain of the Portal server, for example, <code>.acme.com</code> . This tutorial assumes: <code>.techpreview.ibm.com</code> . Note: There is a leading "." before the

	SSO domain name.
Wps.LDAPHostName=<LDAP host name>	Fully qualified name of the LDAP server, lwp11.techpreview.ibm.com.
Wps.LDAPType=<type of LDAP directory server>	Type of LDAP directory. This tutorial assumes IBM_DIRECTORY_SERVER
Wps.LDAPSSLEnabled=<true/false>	True to use SSL for connections to the LDAP directory server, or false otherwise. Enter false.
Wps.LDAPSuffix=<suffix>	Suffix for the LDAP directory server. This tutorial assumes dc=ibm,dc=com.
Wps.LookAside=<true/false>	True to use WebSphere Portal Member Manager (recommended), false otherwise. Enter true.
LWMLocalDomainNames	The domains that will be considered local for receiving mail. Only users with addresses that match this will be able to use Workplace Messaging. This tutorial assumes techpreview.ibm.com.
LWMFullyQualifiedDomainName	Your full DNS server name. This tutorial assumes lwp11.techpreview.ibm.com.
LWMDnsNames	A DNS local to you. On a stand-alone system, you may need to specify a dummy name. This tutorial assumes lwp11.techpreview.ibm.com.

- Go to C:\WebSphere\WorkplaceServer\config and enter the following command (see also the figure below):

```
lwpconfig lwp-enable-ldap-security >
enableSecurity.log
```

Note: Ensure the LDAP server is started and you have connectivity if it is installed on a remote server.



- Go to C:\WebSphere\AppServer\bin and enter the following

commands (see also the figure below):

- `serverStatus all -username wpsadmin -password wpsadmin`
- Depending on which application servers are running, stop them in the following order:
 1. `stopServer LotusWorkplace_Server -username wpsadmin -password wpsadmin`
 2. `stopServer WebSphere_Portal -username wpsadmin -password wpsadmin`
 3. `stopServer server1 -username wpsadmin -password wpsadmin`
- Now start the application servers, in the following order:
 1. `startServer server1`
 2. `startServer WebSphere_Portal`
 3. `startServer LotusWorkplace_Server`

```

C:\WebSphere\AppServer\bin>serverstatus -all -username wpsadmin -password wpsadmin
in
ADMU0116I: Tool information is being logged in file
C:\WebSphere\AppServer\logs\serverStatus.log
ADMU0500I: Retrieving server status for all servers
ADMU0505I: Servers found in configuration:
ADMU0506I: Server name: LotusWorkplace_Server
ADMU0506I: Server name: server1
ADMU0506I: Server name: WebSphere_Portal
ADMU0509I: The Application Server "LotusWorkplace_Server" cannot be reached. It
appears to be stopped.
ADMU0509I: The Application Server "server1" cannot be reached. It appears to be
stopped.
ADMU0508I: The Application Server "WebSphere_Portal" is STARTED

C:\WebSphere\AppServer\bin>stopserver WebSphere_Portal -username wpsadmin -password wpsadmin
ADMU0116I: Tool information is being logged in file
C:\WebSphere\AppServer\logs\WebSphere_Portal\stopServer.log
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server WebSphere_Portal stop completed.

C:\WebSphere\AppServer\bin>startserver server1
ADMU0116I: Tool information is being logged in file
C:\WebSphere\AppServer\logs\server1\startServer.log
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 2488

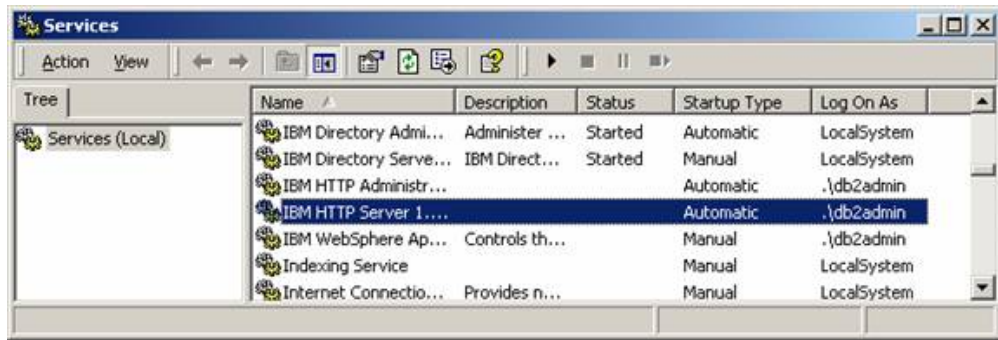
C:\WebSphere\AppServer\bin>startserver WebSphere_Portal
ADMU0116I: Tool information is being logged in file
C:\WebSphere\AppServer\logs\WebSphere_Portal\startServer.log
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server WebSphere_Portal open for e-business; process id is 2412

C:\WebSphere\AppServer\bin>startserver LotusWorkplace_Server
ADMU0116I: Tool information is being logged in file
C:\WebSphere\AppServer\logs\LotusWorkplace_Server\startServer.log
ADMU3100I: Reading configuration for server: LotusWorkplace_Server
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server LotusWorkplace_Server open for e-business; process id is 2288

C:\WebSphere\AppServer\bin>
  
```

- Go to Windows - Services and stop and start the IBM HTTP server, as shown in the figure below:

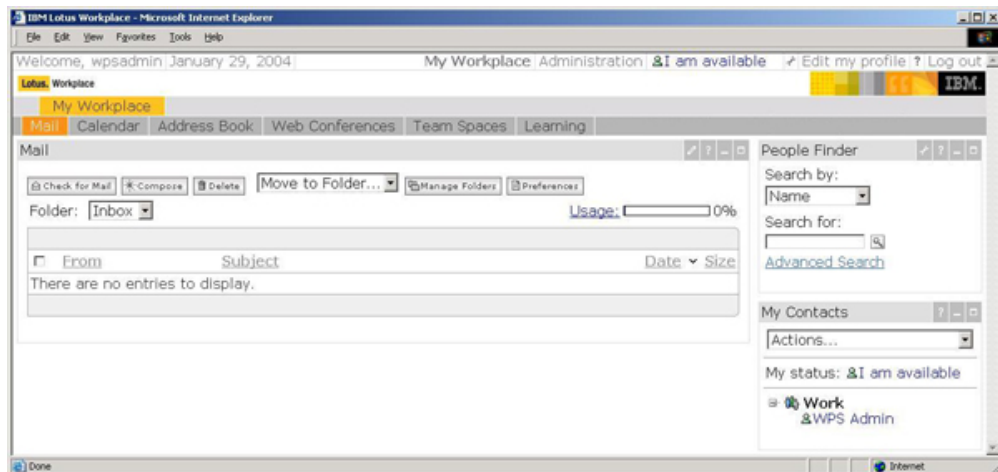
Note: This is to allow the Updated Web Configuration to take effect on the server.



- Enter the following URL in your browser and log in as wpsadmin to test and verify the completion on your IBM Lotus Workplace 1.1 installation.

<http://lwp11.techpreview.ibm.com/lwp/myworkplace>

Then log in as user: wpsadmin, password: wpsadmin



Section 4. Wrap up

Summary

At the end, you should have a functional install of the IBM Lotus Workplace version 1.1 environment. This proof-of-concept setup can help you understand the functionality and the look and feel of this product. As a developer, you get to play with the different components of the IBM Lotus Workplace V1.1. The APIs to the different components of this product are expected to be available with the next release.

Resources

Here are some resources you may find helpful:

- For an overview of Lotus Workplace, see "[What is IBM Lotus Workplace?](http://www-10.lotus.com/ldd/today.nsf/lookup/LWP11)" (<http://www-10.lotus.com/ldd/today.nsf/lookup/LWP11>)".
 - See the [Lotus Workplace 1.1 documentation](#).
 - Download the [lwp_techpreview.ldif](#) used in this tutorial. This LDIF file contains all the users to be imported in your LDAP.
 - Download the [lwpprops.properties.techpreview](#) used in this tutorial. The configured version of the lwpprops.properties file.
-

Feedback

Colophon

This tutorial was written entirely in XML, using the developerWorks Toot-O-Matic tutorial generator. The open source Toot-O-Matic tool is an XSLT stylesheet and several XSLT extension functions that convert an XML file into a number of HTML pages, a zip file, JPEG heading graphics, and two PDF files. Our ability to generate multiple text and binary formats from a single source file illustrates the power and flexibility of XML. (It also saves our production team a great deal of time and effort.)

For more information about the Toot-O-Matic, visit www-106.ibm.com/developerworks/xml/library/x-toot/.